

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows, without prejudice or disclaimer to continued examination on the merits:

1. (Currently Amended): A computer system, comprising:
a plurality of hardware resources;
a plurality of logical resources;
a plurality of functional processes;
an operating system that includes memory management which supports a protected memory model, wherein a process is assigned a unique or separate protected memory block, such that processes may be started, upgraded, or restarted independently of other processes;
a configuration process for configuring certain of the plurality of functional processes on particular ones of the logical resources; and
a mapping process for creating a map associating the plurality of hardware resources with the plurality of logical resources.
2. (Original): The computer system of claim 1, wherein the computer system is a network device and wherein the mapping process is a network management system process.
3. (Original): The computer system of claim 1, wherein the map comprises a logical to physical card table.
4. (Original): The computer system of claim 1, wherein the map comprises a logical to physical port table.
5. (Canceled)

6. (Previously Presented): The computer system of claim 1, wherein computer system is a network device and the configuration process is a network management system process.
7. (Canceled)
8. (Original): The computer system of claim 1, wherein the hardware resources include line cards.
9. (Original): The computer system of claim 1, wherein the hardware resources include line card ports.
10. (Previously Presented): The computer system of claim 1, wherein the functional processes include device driver processes.
11. (Previously Presented): The computer system of claim 1, wherein the functional processes include network protocol applications.
12. (Original): The computer system of claim 11, wherein the network protocol applications include Asynchronous Transfer Mode protocol applications.
13. (Currently Amended): A method of operating a computer system, comprising:
 - providing an operating system that includes memory management which supports a protected memory model, wherein a process is assigned a unique or separate protected memory block, such that processes may be started, upgraded, or restarted independently of other processes;
 - creating logical resources having characteristics similar to particular hardware resources;
 - generating a map of logical resources to hardware resources; and
 - provisioning services to logical resources.

14. (Original): The method of claim 13, wherein the computer system is a network device and wherein generating a map is accomplished through the use of a network management system process.

15. (Original): The method of claim 13, wherein the map comprises a logical to physical port table.

16. (Original): The method of claim 13, wherein the map comprises a logical to physical port table.

17. (Canceled)

18. (Canceled)

19. (Canceled)

20. (Original): The method of claim 13, wherein the hardware resources include line card.

21. (Currently Amended): The method of operating a computer system, comprising:
providing an operating system that includes memory management which supports a protected memory model, wherein a process is assigned a unique or separate protected memory block, such that processes may be started, upgraded, or restarted independently of other processes;

providing a logical resource;

providing a physical resource;

configuring ~~a~~ the process on ~~a~~ the logical resource, said logical resource providing a model of ~~a~~ the physical resource; and

applying the configured logical resource to ~~a~~ the physical resource.

22. (Previously Presented): The method of claim 21, further comprising:
applying the configured logical resource to another physical resource.
23. (Previously Presented): The method of claim 21, further comprising:
detecting a fault on the physical resource;
failing over from the physical resource to a second physical resource; and
applying the configured logical resource to the second physical resource.
24. (Previously Presented): The method of claim 21, further comprising:
detecting an event within the computer system; and
applying the configured logical resource to a second physical resource.
25. (Previously Presented): The method of claim 24, wherein the event includes a
resource consumption notification.
26. (Previously Presented): The method of claim 24, wherein the event includes a fault.
27. (Previously Presented): The method of claim 21, wherein the process comprises a first
process, the logical resource comprises a first logical resource and the physical resource
comprises a first physical resource and further comprising:
configuring a second process on a second logical resource; and
applying the configured second logical resource to a second physical resource.
28. (Previously Presented): The method of claim 27, wherein the first and second
processes are the same process.
29. (Previously Presented): The method of claim 27, wherein the first and second
processes are different processes.

30. (Previously Presented): The method of claim 27, wherein the first and second logical resources are the same logical resource.
31. (Previously Presented): The method of claim 27, wherein the first and second logical resources are different logical resources.
32. (Previously Presented): The method of claim 27, wherein the first and second physical resources are the same hardware resource.
33. (Previously Presented): The method of claim 27, wherein the first and second hardware resources are different hardware resources.
34. (Currently Amended): The method of claim 21, wherein configuring ~~a~~ the process on ~~a~~ the logical resource comprises:
filling in a field in a table in a configuration database.
35. (Currently Amended): The method of claim 21, wherein configuring a process on ~~a~~ the logical resource comprises:
filling in a plurality of fields in a plurality of tables in a configuration database.
36. (Previously Presented): The method of claim 35, wherein the plurality of tables comprise an application group table.
37. (Previously Presented): The method of claim 35, wherein the plurality of tables comprise an application interface table.
38. (Previously Presented): The method of claim 35, wherein the plurality of tables comprise a service end point table.
39. (Previously Presented): The method of claim 21, wherein applying the configured

logical resource to the physical resource comprises:

assigning a logical identifier to the physical resource.

40. (Previously Presented): The method of claim 39, wherein applying the configured logical resource to the physical resource further comprises:

filling in a field in a table in a configuration database.

41. (Previously Presented): The method of claim 40, wherein the table comprises a logical to physical card table.

42. (Previously Presented): The method of claim 21, wherein the logical resource represents a physical hardware module and the physical resource comprises the physical hardware module.

43. (Previously Presented): The method of claim 42, wherein the physical hardware module comprises a card.

44. (Previously Presented): The method of claim 43, wherein the card comprises a line card.

45. (Previously Presented): The method of claim 43, wherein the card comprises a physical card.

46. (Previously Presented): The method of claim 21, wherein the physical hardware module comprises a board.

47. (Previously Presented): The method of claim 46, wherein the board comprises a central processing board.

48. (Previously Presented): The method of claim 21, wherein the logical resource

represents a physical port on a forwarding card and the physical resource comprises the physical port on the forwarding card.

49. (Previously Presented): The method of claim 48, wherein the logical resource comprises a service endpoint and the physical port comprises a port on a forwarding card.

50. (Previously Presented): The method of claim 21, wherein the logical resource comprises a logical identifier.

51. (Previously Presented): The method of claim 21, wherein the computer system comprises a network device.

52. (Currently Amended): The method of claim 51, wherein configuring the process on the logical resource comprises:

configuring network connectivity on the logical resource;
~~configuring a process on a logical resource; and~~
~~applying the configured logical resource to a physical resource.~~

53. (Previously Presented): The method of claim 21, further comprising:
adding the physical resource to the computer system, wherein applying the configured logical resource to the physical resource is delayed until the physical resource is added to the computer system.

54. (Currently Amended): The method of claim 21, wherein configuring ~~a~~ the process on

~~a~~ the logical resource comprises:

configuring a plurality of processes on a plurality of logical resources; and wherein applying the configured logical resource to a the physical resource comprises:

applying the configured plurality of logical resources to a plurality of physical resources.

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55. (Previously Presented): The method of claim 21, wherein the process comprises an application.